

# Year 6 Maths Activity Mat

## Section 1

Use these clues to find the number:

- The number has 6 digits.
- The number is less than 300 000.
- 10 is a factor of the number.
- The hundred thousands and ten thousands digit are the same and are odd.
- The tens digit is a cube number and is one more than the thousands digit.
- The sum of the hundreds and the thousands digits is 10.

## Section 2

Calculate:

$$\begin{array}{r}
 4 \quad 2 \quad 8 \quad 1 \\
 \times \quad \quad 2 \quad 3 \\
 \hline
 \\
 \hline
 \end{array}$$

## Section 3

A library has 2498 books. 1134 are fiction. The rest are non-fiction. 272 of the non-fiction are on loan, and 1017 are in the library, and the rest are missing. How many non-fiction books are missing?

## Section 4

Calculate:

$$\frac{1}{2} \div 5 = \boxed{\phantom{00}}$$

$$\frac{3}{4} \div 5 = \boxed{\phantom{00}}$$

## Section 5

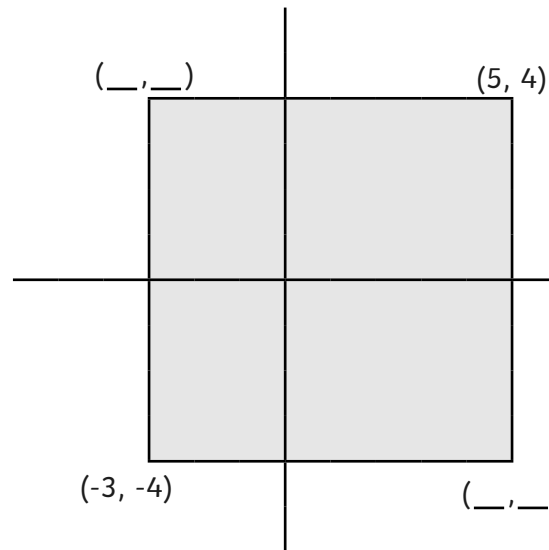
25% of a class are wearing trainers. What fraction are not wearing trainers?

## Section 6

A length of timber is 2400mm long. It is divided into 8 equal pieces. How long is each piece in metres?

## Section 7

Write the missing coordinates for this rectangle.



## Section 8

**a** and **b** are whole numbers between 7 and 13. Write all the calculations showing the possible values of **a** and **b** where:

$$a + b = 20$$

## Year 6 Maths Activity Mat: 5 Answers

### Section 1

Use these clues to find the number:

- The number has 6 digits.
- The number is less than 300 000.
- 10 is a factor of the number.
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- The tens digit is a cube number and is one more than the thousands digit.
- The sum of the hundreds and the thousands digits is 10.

**117 380**

### Section 2

Calculate:

4	2	8	1	
x		2	3	
<b>1</b>	<b>2</b>	<b>8</b>	<b>4</b>	<b>3</b>
<b>8</b>	<b>5</b>	<b>6</b>	<b>2</b>	<b>0</b>
<b>9</b>	<b>8</b>	<b>4</b>	<b>6</b>	<b>3</b>

### Section 3

A library has 2498 books. 1134 are fiction. The rest are non-fiction. 272 of the non-fiction are on loan, and 1017 are in the library, and the rest are missing. How many non-fiction books are missing?

**75 books**

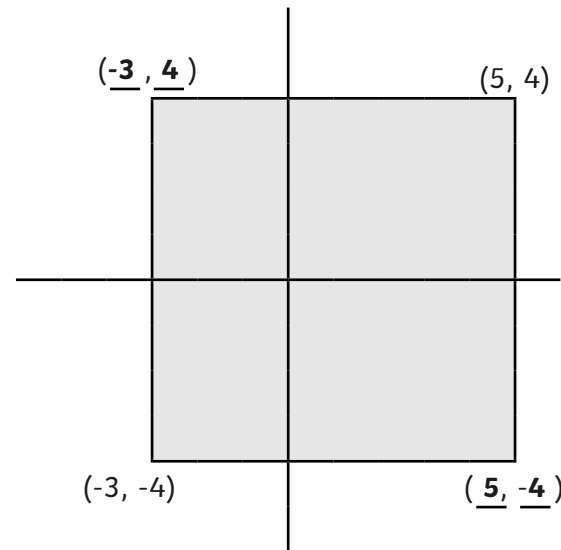
### Section 6

A length of timber is 2400mm long. It is divided into 8 equal pieces. How long is each piece in metres?

**0.3m**

### Section 7

Write the missing coordinates for this rectangle.



### Section 4

Calculate:

$$\frac{1}{2} \div 5 = \frac{1}{10}$$

$$\frac{3}{4} \div 5 = \frac{3}{20}$$

### Section 5

25% of a class are wearing trainers. What fraction are not wearing trainers?

**$\frac{3}{4}$**

### Section 8

**a** and **b** are whole numbers between 7 and 13. Write all the calculations showing the possible values of **a** and **b** where:

$$a + b = 20$$

**a = 12, b = 8;**  
**a = 11, b = 9;**  
**a = 10, b = 10;**  
**a = 9, b = 11;**  
**a = 8, b = 12**